

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
25 November 2004 (25.11.2004)

PCT

(10) International Publication Number  
**WO 2004/101912 A3**

(51) International Patent Classification<sup>7</sup>: **E04G 21/32**

(21) International Application Number:  
PCT/CA2004/000650

(22) International Filing Date: 30 April 2004 (30.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/470,870 16 May 2003 (16.05.2003) US

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

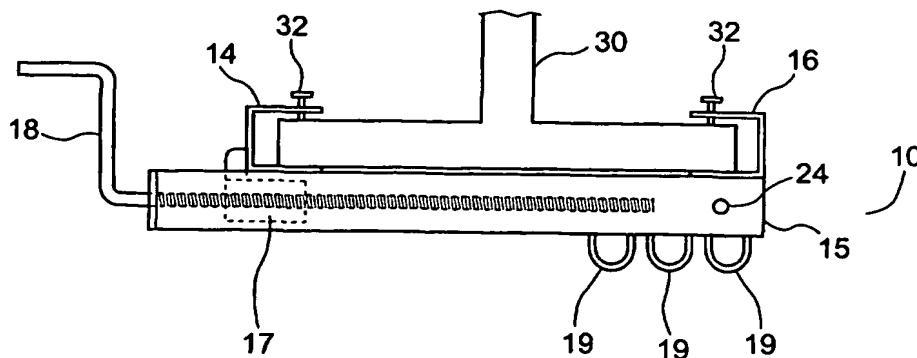
**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
6 January 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SAFETY RESTRAINT SYSTEM



(57) Abstract: A safety restraint device and system are provided for establishing a fall arresting system for steel frame workers. The base unit of the devices can be rapidly attached to vertical steel I-beams (30) by having a clamp (16, 18) for attachment to the beams. The base unit also has a mounting bracket to which a cable support accessory, for example, can be rapidly attached. The cable can then be extended and attached to similar devices on adjacent beams. Other accessories can also be used to provide temporary handrails, platforms and the like which are supported by the base units of the devices. A rapidly deployable system which provides improved worker safety is provided.

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA2004/000650

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E04G21/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04G A62B F16B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 529 144 A (HENDERSON MATT G) 25 June 1996 (1996-06-25) column 2, lines 36-67 column 4, lines 3-18	1,7,10, 11,16
X	US 4 799 639 A (RILEY KEITH) 24 January 1989 (1989-01-24) column 1, lines 10-15; figure 1 column 1, line 60 - column 2, line 3 column 2, lines 19-28	1,2, 9-11,16
X	US 6 036 146 A (PATERSON BRUCE W) 14 March 2000 (2000-03-14) column 3, lines 31-64 column 5, lines 36-47 figure 2	1,3,4,9, 16
Y		5,6
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

30 July 2004

Date of mailing of the international search report

09. 11. 2004

Name and mailing address of the ISA

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA2004/000650

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 735 026 A (WILLMARTH) 28 July 1903 (1903-07-28) page 1, lines 26-50 -----	5
Y	US 6 053 281 A (MURRAY JEFFERY L) 25 April 2000 (2000-04-25) column 4, lines 30-46; figure 7 -----	6
X	GB 2 256 247 A (SAFETY DEV LIMITED CONST) 2 December 1992 (1992-12-02) pages 5-6; figure 4 -----	1,2,7,16
A	US 4 942 943 A (FLAHERTY BRIAN J) 24 July 1990 (1990-07-24) figures 1,2 -----	1

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/000650

## Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7, 9-11, 16

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ ~~No protest accompanied the payment of additional search fees.~~

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,9-11,16

Safety restraint device comprising a base rod and one or more releasable mounting devices for receiving and attaching at least one of a variety of accessories to said base rod.

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2. claims: 8,12-13

Accessory for use with a safety restraint device as claimed in claim 1 comprising a winch assembly

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3. claims: 8,12

Accessory for use with a safety restraint device comprising a ladder

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4. claims: 8,12

Accessory for use with a safety restraint device comprising a light

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5. claims: 8,12

Accessory for use with a safety restraint device comprising a sign

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6. claims: 8,12

Accessory for use with a safety restraint device comprising a radio

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7. claims: 8,12

Accessory for a safety restraint device comprising a handrail

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8. claims: 8,12

Accessory for a safety restraint device comprising a platform or a suspended platform

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9. claims: 14-15

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Method for establishing a static line comprising separately  
attaching a first base rod and a second base rod to two  
vertical frame members.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA2004/000650

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5529144	A	25-06-1996	NONE	
US 4799639	A	24-01-1989	NONE	
US 6036146	A	14-03-2000	NONE	
US 735026	A		NONE	
US 6053281	A	25-04-2000	CA 2237418 A1	29-06-1999
GB 2256247	A	02-12-1992	NONE	
US 4942943	A	24-07-1990	US 4852692 A CA 1332385 C	01-08-1989 11-10-1994